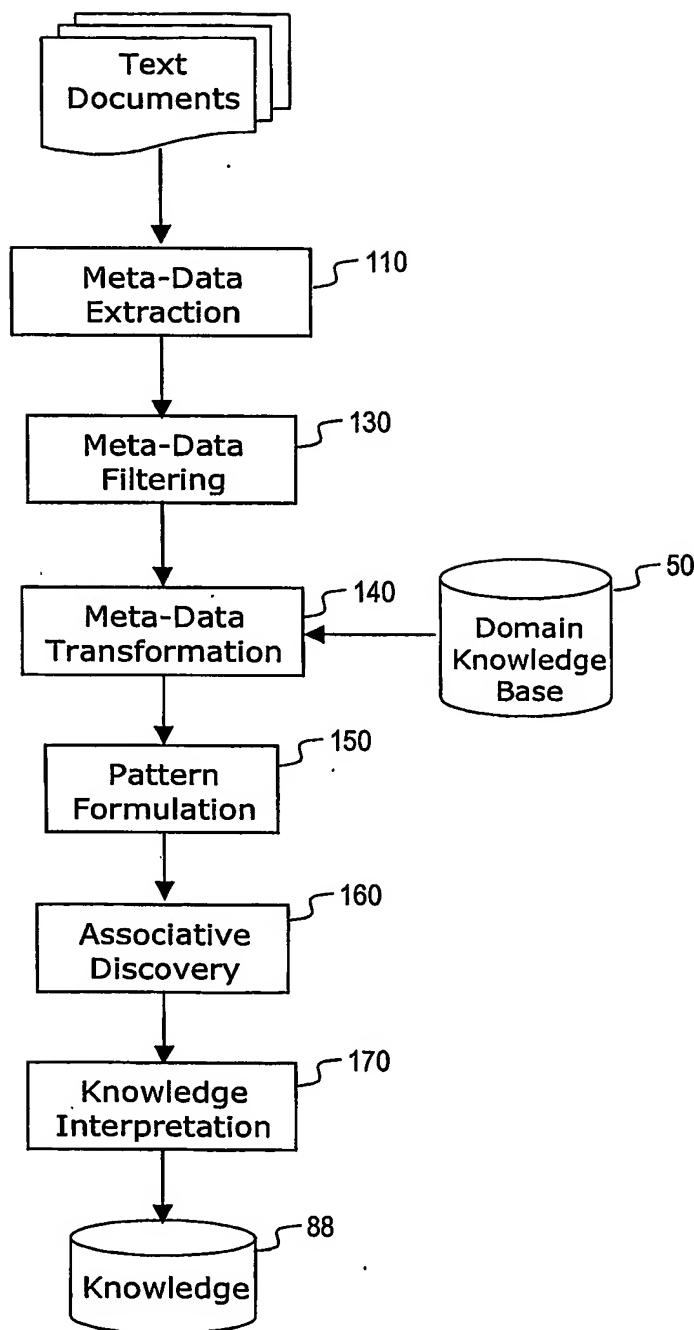
**FIG. 1**

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**FIG. 2A**

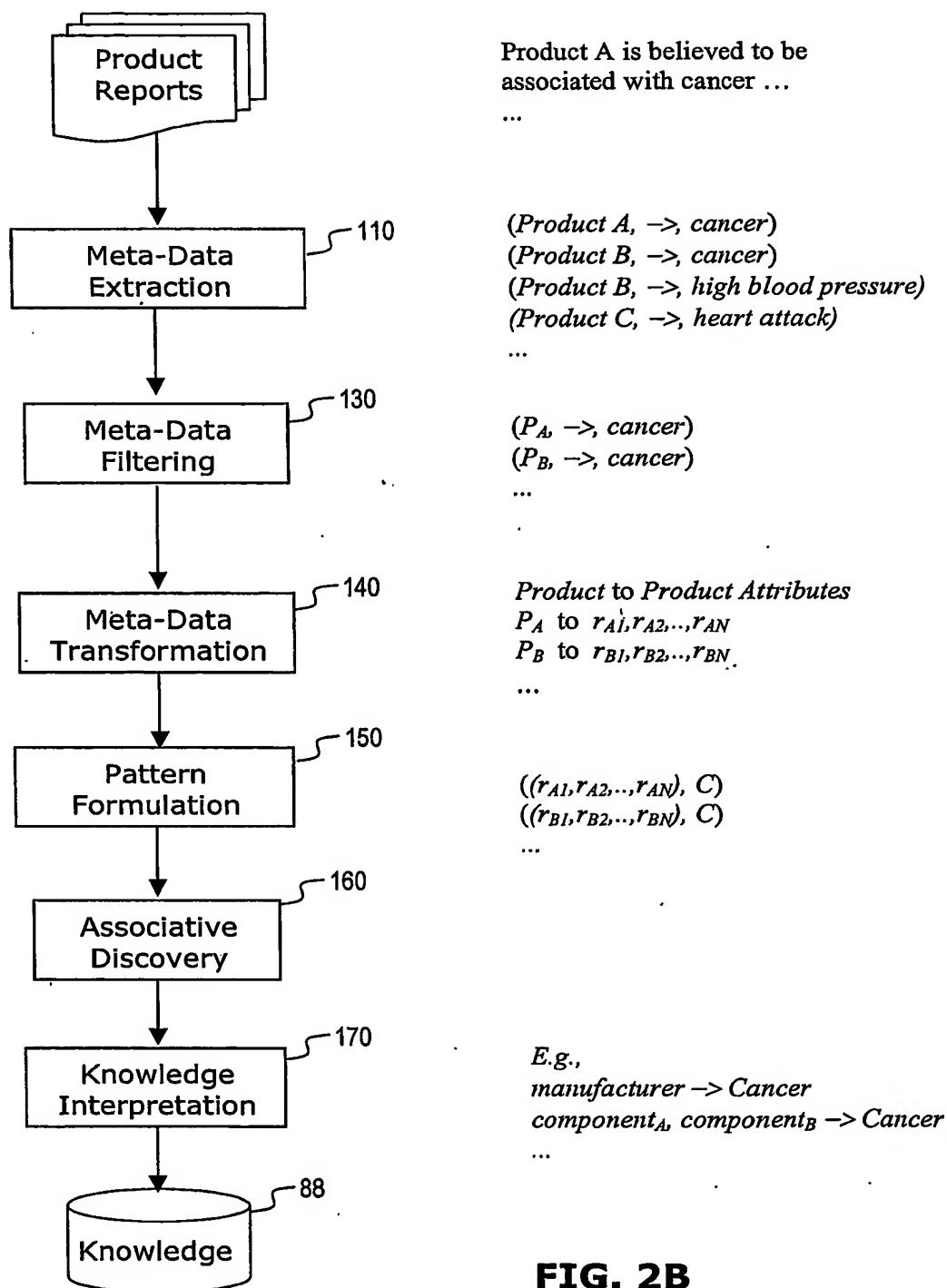
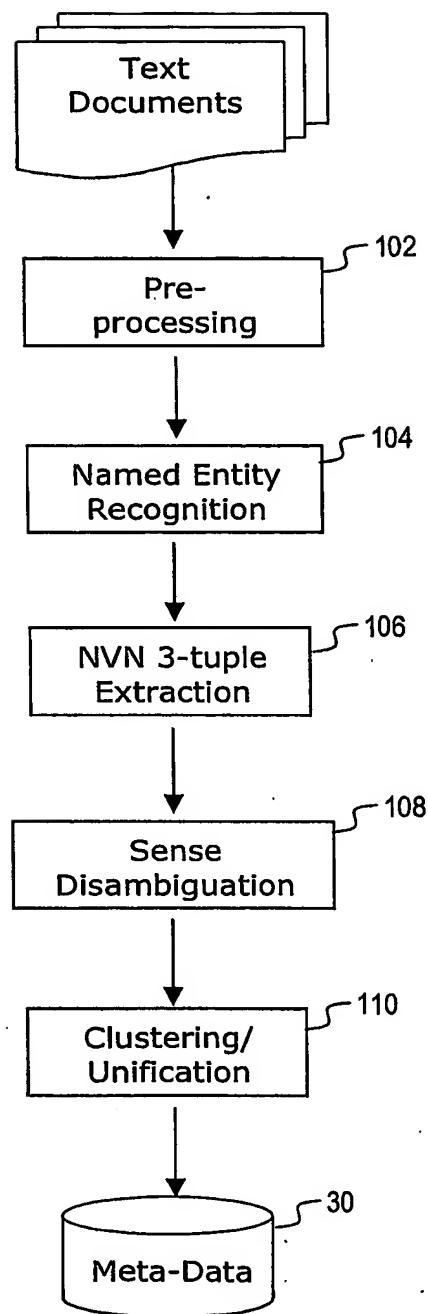
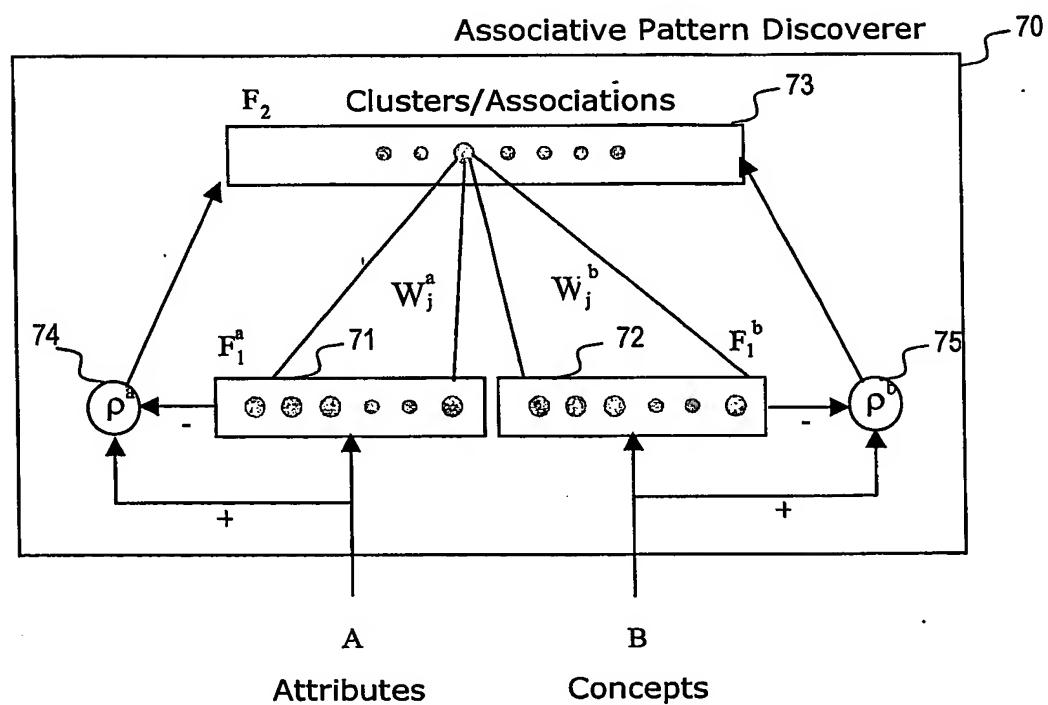


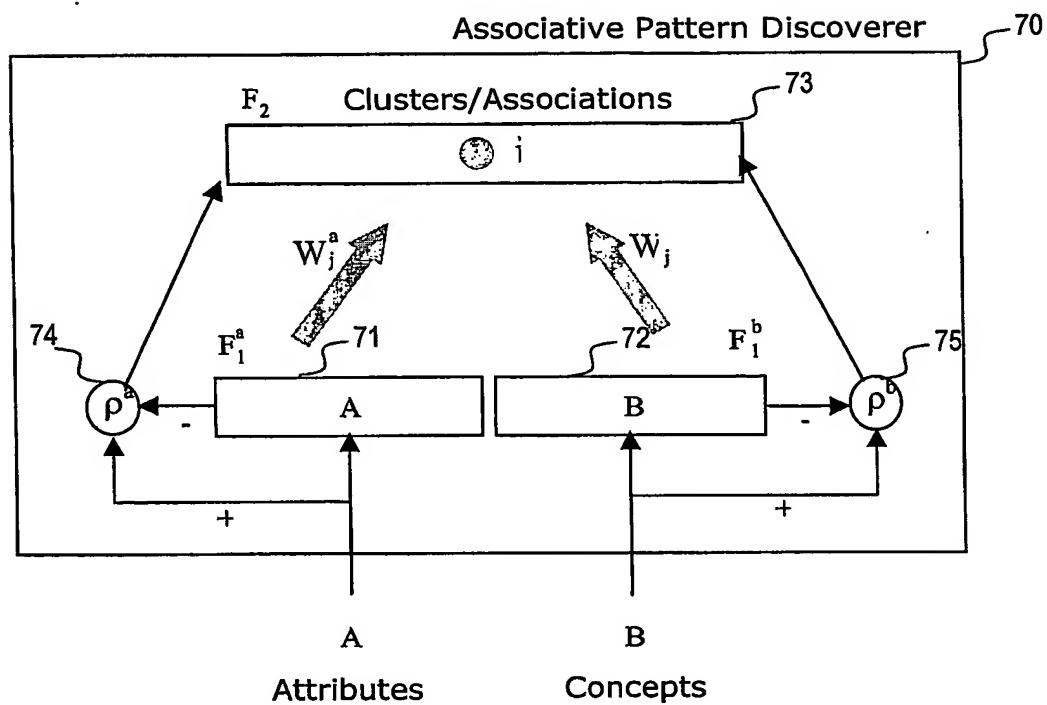
FIG. 2B

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**FIG. 3**

**FIG. 4**

$$\text{Category choice: } T_j = \gamma \frac{|A \cap W_j^a|}{\alpha^a + |W_j^a|} + (1-\gamma) \frac{|B \cap W_j^b|}{\alpha^b + |W_j^b|}$$

**FIG. 5**

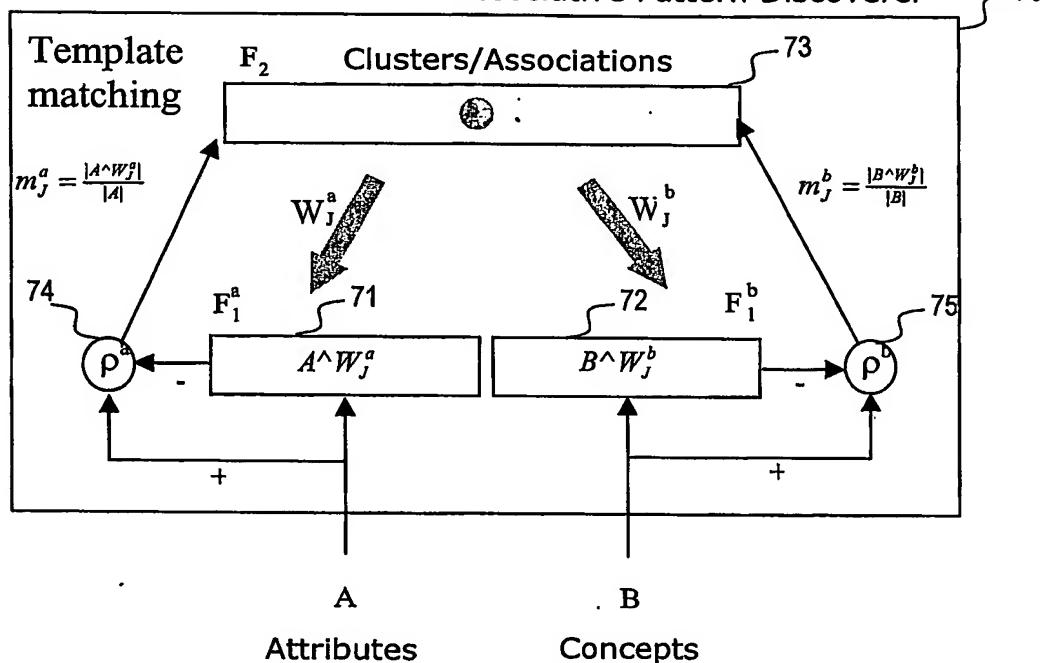
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Template learning

$$w_j^{a(\text{new})} = (1 - \beta^a) w_j^{a(\text{old})} + \beta^a (A \wedge w_j^{a(\text{old})})$$

$$w_j^{b(\text{new})} = (1 - \beta^b) w_j^{b(\text{old})} + \beta^b (B \wedge w_j^{b(\text{old})})$$

Associative Pattern Discoverer

**FIG. 6**

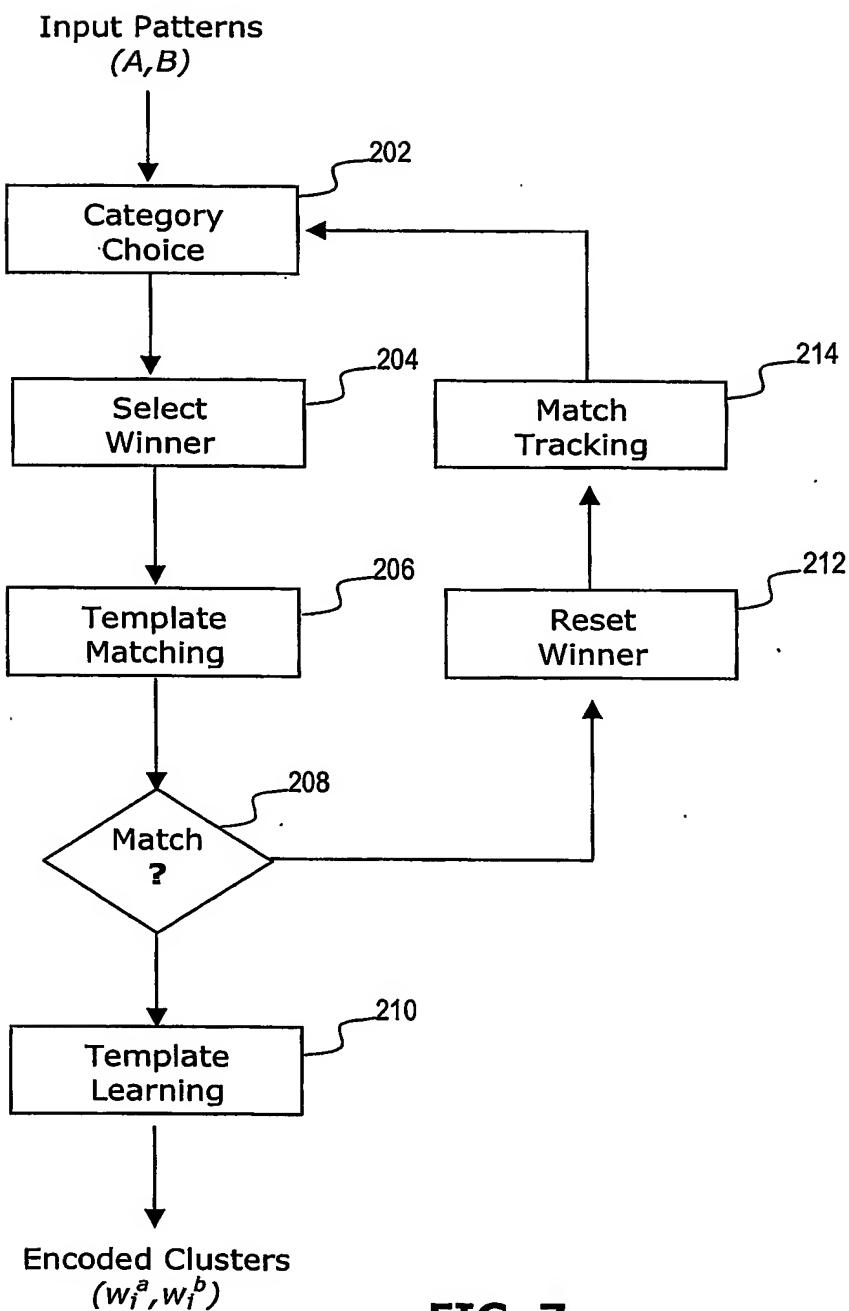
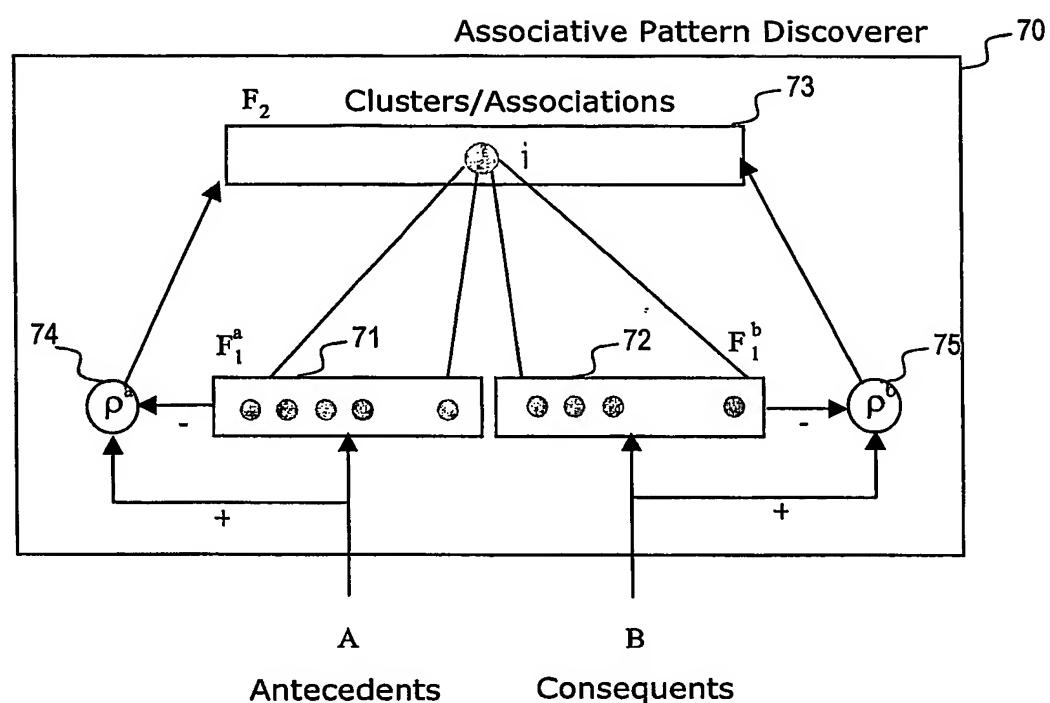
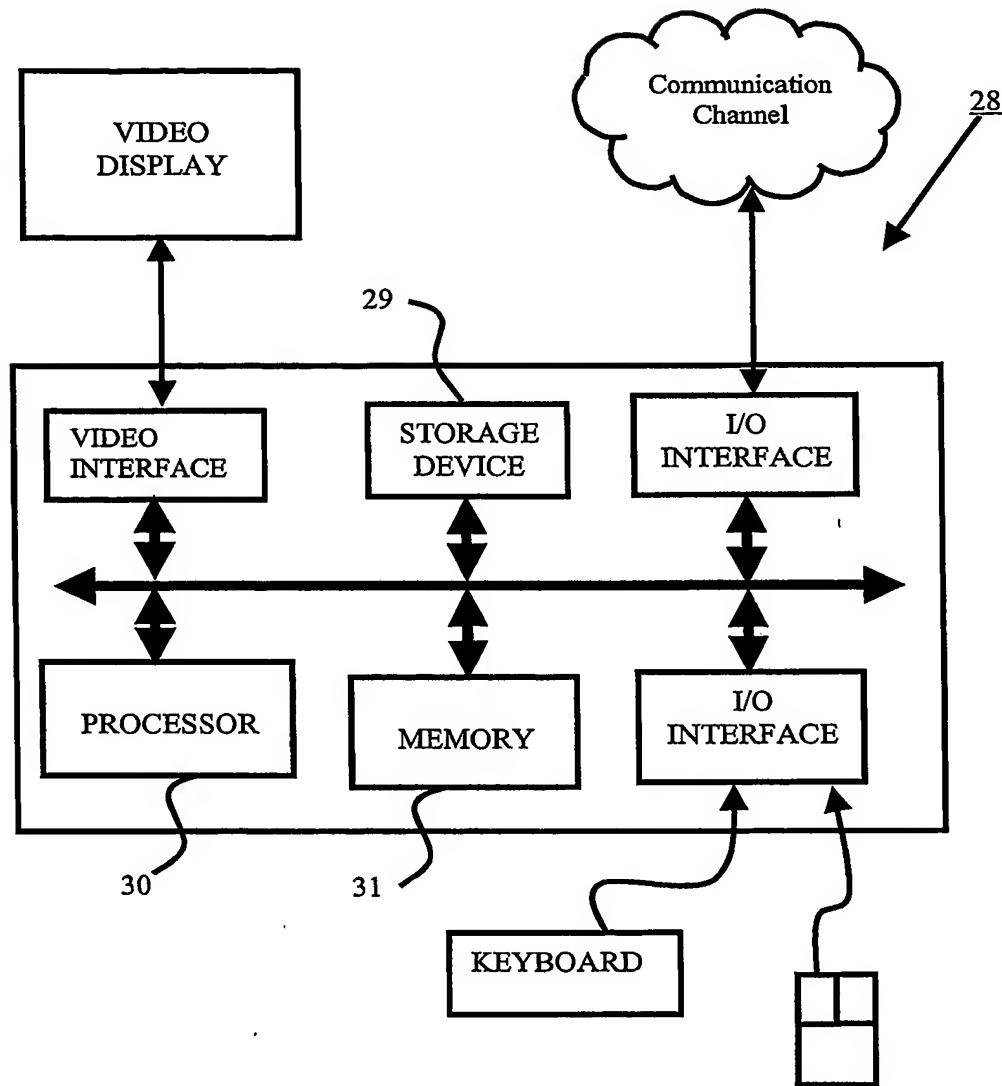


FIG. 7

**FIG. 8**

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**FIG. 9**